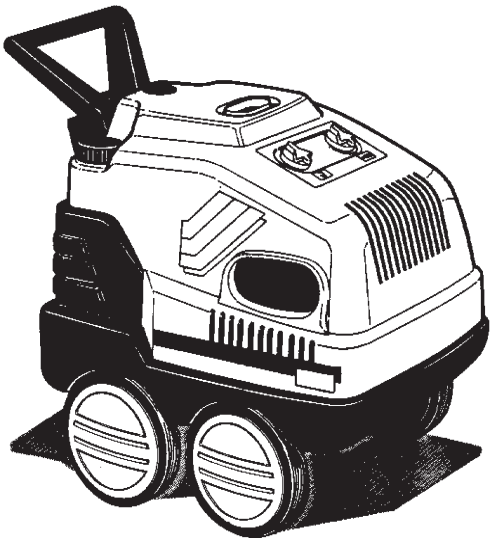
KERRICK®

OPERATING & MAINTENANCE MANUAL



UNIVERSE MODELS

DS 1610M - DS 2210T - DS 2010M - DS 2320T - DS 2640T

Read Safety & Operating Instructions Before Commencing Operation

THESE INSTRUCTIONS MUST BE READ AND ADHERED TO BEFORE OPERATING THIS MACHINE

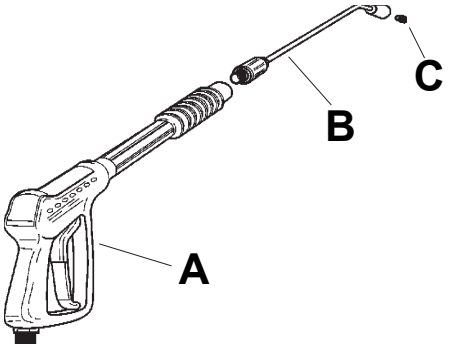
Your Kerrick cleaner comes complete with a full range of accessoreis designed to make your cleaning task and easy one. Manufactured in Italy this is a high quality unit, that if treated properly will give many years of service.

To get the best from your Kerrick machine we suggest you follow the operating and maintenance details contained in this document.

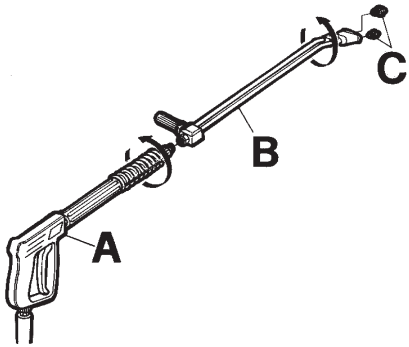
The **CE** mark on your cleaner shows that it has been constructed in compliance with the European Standards on safety.

PREPARING THE CLEANER

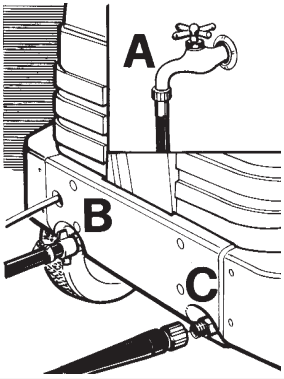
Fitting the lance.



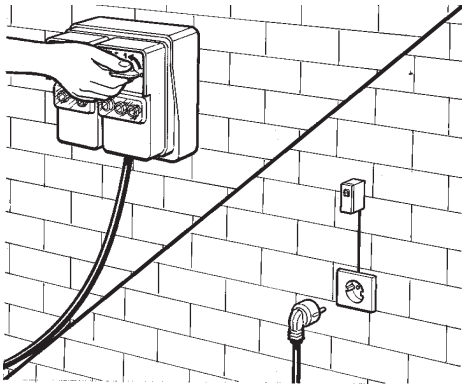
Fitting the lance.



Water circuit connection.

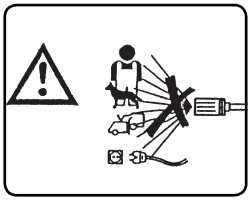


Electrical connection.



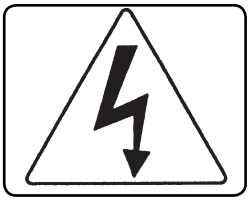
Continue reading this manual without connecting cleaner to the power mains and the water supply.

DESCRIPTION OF SYMBOLS ON THE CLEANER

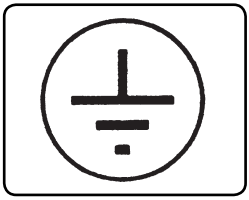


DO NOT DIRECT THE JET AGAINST PEOPLE, ANIMALS, POWER SOCKETS OR THE MACHINE ITSELF.

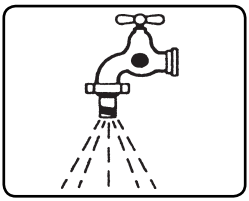
ATTENTION: RISK OF BURNS.



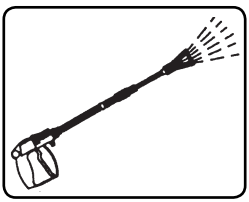
ATTENTION: RISK OF ELECTRIC SHOCK.



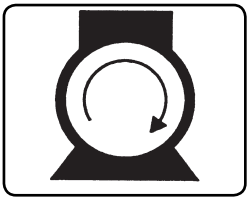
EARTH.



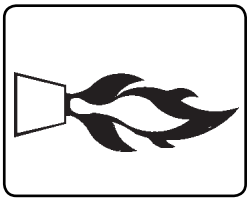
WATER INPUT.



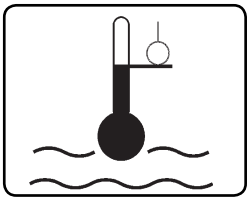
WATER OUTPUT.



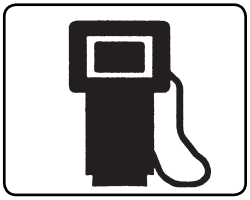
SWITCHING OF THE PUMP MOTOR.



LIGHTING THE BURNER.



ADJUSTING THE WATER TEMPERATURE.



FUEL (DIESEL).

CHEMICHALS (DETERGENT).

ANTI-SCALE PRODUCT.

The most important instructions are marked with the symbol:

⚠

INTRODUCTION

⚠ This manual must be read before installing, setting up and using the cleaner. The manual is an integral part of the product.

Read the warnings and instructions in this manual carefully as they provide important indications as to **SAFETY IN USE and MAINTENANCE**, paying special attention to the general rules for safety listed in the yellow booklet.

KEEP THIS MANUAL CAREFULLY FOR FUTURE CONSULTATION.

⚠ The contents of this booklet must be brought to the attention of persons using or carrying out routine maintenance on this water cleaner.

CLASSIFICATION

The user must observe the conditions of use of the appliance prescribed by the Rules, respect the following classification in particular:

As for the protection against electric shock, the High Pressure (H.P.) cleaner belongs to CLASS I.

The H.P. cleaner is factory set and all its safety devices are sealed. **It is forbidden to alter their adjustment values.**

In this hot water cleaner the water is heated by a burner fed with **Diesel** fuel.

The H.P. cleaner must be always used on firm and flat ground, furthermore it must not be moved while it is working or connected to the electric supply.
Failure to observe this prescription may cause danger for the user.

The H.P. cleaner must not be used in the presence of corrosive or potentially explosive atmospheres. (vapours or gas)

The electrical repairs and servicing must be performed by qualified technicians who are able to work in accordance with your areas laws.

A poor electrical connection may cause damage to people, animals or things, and the manufacturer cannot be considered responsible for these.

The H.P. cleaners with power lower than 3 kW are equipped with a plug for connection to the electric supply.
In this case please check if the electric power system and the electric sockets are compatible with the max. power of the appliance indicated on the plate. (kW)
In case of doubt, please consult with a qualified technician/ electrician. If the socket and the plug of the machine are not compatible, have the plug replaced with a suitable type by qualified personnel.

Before connecting the machine make sure that the data indicated on the plate corresponds with that of the electrical supply. Do not use extension cables and multi-plugs with your H.P. cleaner.

The electric safety of this machine may be assured only when it is properly connected to an efficient grounding system in accordance with the governing laws for electric safety.

It is necessary to check this essential safety requisite. In case of doubt, ask for accurate control of the power system by qualified personnel.
The manufacturer can not be held responsible for damages that result due to a lack of electrical grounding.

The H.P. cleaner must be connected to the electric supply by means of an omnipolar switch with opening contacts of at least 3 mm. This switch must have electric features which are consistent with the appliance. (This requisite does not apply to H.P. cleaners with plug and electric power lower than 3 kW)

The appliance is disconnected from the electric supply only by pulling out the plug or switching off the omnipolar switch.

Failure to respect the above absolves the manufacturer of all liability and represents negligent use of the product.

The water cleaner is considered as a fixed device.

⚠ Water cleaners with the “Total Stop” device should be considered as off when the omnipolar switch is in the “O” position or the plug is unplugged from the socket.

INTENDED USE

This appliance is intended exclusively for cleaning machines, vehicles, buildings and general surfaces suitable for treatment with a high pressure jet of detergent solution between 25 and 250 bar (360 - 3600 PSI).

This appliance has been designed for use with the detergents supplied or recommended by the manufacturer. The use of other detergents or chemicals may influence the safety of the appliance.

This appliance must be used only for the purpose for which it was specifically designed.

All other uses are to be considered incorrect and therefore unreasonable.

Examples of unreasonable use:

- Washing surfaces not suitable for cleaning with a high pressure jet.
- Washing people, animals, electric equipment or the machine itself.
- Using unsuitable detergents or chemicals.
- Blocking the trigger (lever) of the lance in delivery position.

The manufacturer cannot be held responsible for any damage due to improper, incorrect or unreasonable use. As far as safety rules are concerned, the cleaners are manufactured according to the European Standard EN 60 335-1 (General standard) and EN 600335 2 79 (Specific standard).

DATA PLATE:

The data plate bearing the main technical characteristics of your cleaner is located on the trolley and is always visible.

⚠ **When buying your cleaner, ensure that it has an identification plate. If there is no plate, inform the manufacturer and/or the dealer immediately. Machines without a plate must not be used and the manufacturer declines all responsibility for them. Products without a plate must be considered anonymous and potentially dangerous.**

PRELIMINARY OPERATIONS

UNPACKING

After unpacking, ensure that the cleaner is undamaged.
If in doubt, do not use the machine and contact your dealer.

Packaging (bags, boxes, nails, etc) is potentially dangerous and should be kept out of reach of children. It should be disposed of or retained in respect of national environmental legislation.

FITTING THE SEPARATE PARTS OF THE MACHINE

All the fundamental parts and safety devices of the machine are assembled by the manufacturer.
For reasons of packing and transport, some secondary cleaner parts are supplied separately.
The user must fit these parts as explained in the instructions supplied in each assembly kit.

FILLING THE FUEL TANK

Fill the tank with fuel for Diesel motors (fig. 1).

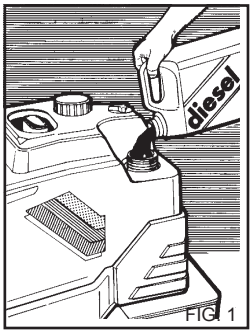


FIG. 1

⚠ **Do not use different fuel from that indicated on the identification plate.**
Check the fuel level from time to time while the cleaner is operating.
Attempting to use the cleaner without fuel may cause damage to the fuel pump.

FILLING THE DETERGENT TANK

From the range of recommended products, choose the one most suited to the washing job to be done (fig. 2) and dilute it with water according to the instructions on the pack.
Fill the detergent tank with the diluted product (fig. 3).

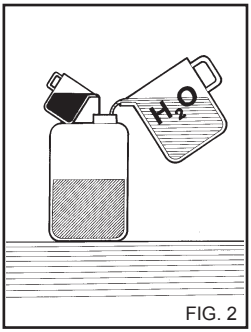


FIG. 2

Ask your dealer for the catalogue of the detergents that can be used depending on the type of washing job to be done and the type of surface to be treated.
After using a detergent, the detergent intake circuit must be flushed out with clean water.

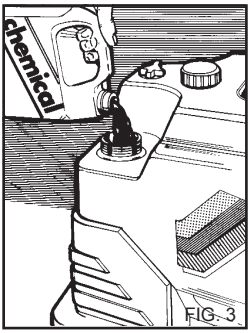


FIG. 3

FILLING THE WATER SOFTENER TANK. (if available)

Fill the tank with water softener solution.
Use only products recommended by the manufacturer and/or dealer. Follow the instructions given on the packaging meticulously. (Do not disperse water softener in the environment).

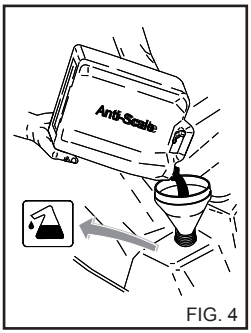


FIG. 4

COMMAND AND CONTROL DEVICES

⚠ Before connecting the machine to the water supply and to the power mains, it is essential to know the function of the cleaner's command and control devices.

WATER CIRCUIT CONNECTION

Connect the feed hose to the mains (fig. 5A) and to the hosetail on the cleaner (fig. 5B).
Check that the pressure and quantity of the water supplied by the mains are sufficient for the cleaner to work properly: 2 to 8 BAR (29 to 116 PSI).
Maximum temperature of feeding water 50°C (122°F).

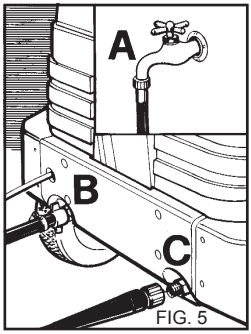


FIG. 5

Connect the high pressure hose to the cleaner (fig. 5C) and to the lance (fig. 6).

IMPORTANT.
The cleaner must operate with clean water. Dirty or sandy water, corrosive chemicals and solvents can cause severe damage to the cleaner.
Failure to respect the above absolves the manufacturer of all liability and represents negligent use of the product.

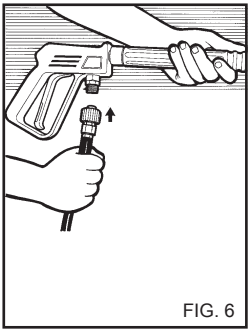


FIG. 6

ELECTRICAL CONNECTION

Connection of the cleaner to the mains must be carried out be skilled technicians able to ensure that all regulations in force are complied with use in respect of current standards and legislation.

Ensure that the mains voltage available is the same as the voltage at which the cleaner is supposed to work; this is indicated on the identification plate.

⚠ The electric cable must be protected from accidental crushing.

⚠ Do not use the machine if the supply cable is damaged.

⚠ The use of any electric appliance requires the respect of some basic rules:
• Do not touch the appliance with wet or damp hands or feet.
• Do not use the appliance bare-footed or with unsuitable clothing.
• Do not pull the supply cable or the appliance itself in order to disconnect the plug from the electric supply.
(For water cleaners rated at less than 3 kW fitted with plug).

As for the protection against electric shock, the H.P.cleaner belongs to CLASS I.

⚠ **Failure to observe the above warning frees the manufacturer from all responsibility and constitutes negligent use of the product.**

GENERAL WARNINGS ABOUT INSTALLATION AND USE

⚠ The use of any electric appliance requires the respect of some basic rules:

• Do not touch the appliance with wet or damp hands or feet.
• Do not use the appliance bare-footed or with unsuitable clothing.
• Do not pull the supply cable or the appliance itself in order to disconnect the plug from the electric supply.
(For water cleaners rated at less than 3 kW fitted with plug).

! TThe H.P. cleaner must not be used by children, teenagers ⚠ incapable persons (under the influence of alcohol, etc.)

⚠ Use only original or Kerrick approved accessories that are designed to work safely with this H.P. cleaner.

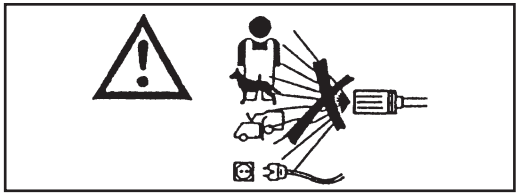
⚠ he flexible hose connecting the lance to the H.P. cleaner must not be damaged. In case of damage, replace it immediately.

⚠ Hoses, connections and fittings for high pressure systems are very important to guarantee the safety of the H.P. cleaner. Use only original spare parts which have the manufacturer's approval.

⚠ Do not use the H.P. cleaner when people or animals are in its field of action.

⚠ High pressure jets may be dangerous if not properly used.We strongly recommend the use of protective clothing. The jet must never be directed at people or animals, electric appliances or at the appliance itself.

⚠ The high pressure water jet causes thrust/kick back on the lance. Hold the lance tightly.



⚠ The use of the H.P. cleaner must be considered according to the kind of washing which must be performed.
Protect yourself against the ejection of solid materials or corrosive substances by means of adequate protective clothing.

⚠ The use of the H.P. cleaner must be considered according to the place where the washing is performed (for example: food plants, pharmaceutical plants, etc.)
Pertinent rules and safety conditions must be followed.

As for the protection against electric shock, the H.P.cleaner belongs to **CLASS I**.

⚠ Do not direct water jets at your own or other people's bodies in order to clean clothes or shoes.

⚠ While working it is forbidden, to stop the trigger (lever) of the lance in delivery position.

⚠ In the hot water H.P. cleaners a Diesel fuel burner is used for water heating. The use of other fuels is dangerous.

⚠ Before starting any cleaning or maintenance operation, disconnect the machine from the electric and water supply networks.

⚠ Periodically, at least once a year, have the safety devices checked by one of our service centres.

⚠ If the appliance is to be used in an enclosed space, install a flue gas extraction system and guarantee adequate ventilation.

⚠ The hot water cleaner must be supervised while it is working.

⚠ Do not clog the openings or the ventilation grilles and the heat and smoke extraction systems in the hot water cleaners.

⚠ Do not use the machine if the supply cable is damaged.
For the replacement of the damaged cable apply exclusively to one of our technical service centres.
The supply cable of this appliance must not be replaced by the user.

⚠ The electric power cable must never be under mechanical tension and must be protected against accidental crushing.

⚠ In case of damage or malfunction, switch off the appliance (disconnecting it from the water main and from the electricity main via the omnipolar switch or by unplugging the plug in the case of water cleaners rated at less than 3 kW) without tampe-ring with it.

Failure to observe the above warning frees the manufacturer from all responsibility and constitutes negligent use of the product.

USING THE CLEANER

CONTROL PANEL

A - On/off switch
B - Temperature regulator
C - Detergent control tap. (if available).
D - Pressure gauge. (if available).

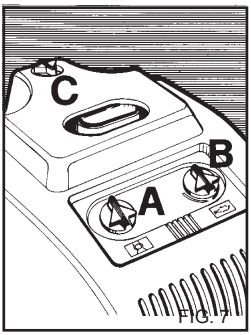


FIG. 7

STARTING THE CLEANER

1) Turn on the water supply tap (fig. 5A).

2) Connect the water cleaner to the mains electricity supply via the omnipolar switch or by plugging the plug into the socket.

3) Start the cleaner by turning the selector switch to pos. 1 (fig. 7A).
The high pressure water jet generates a reaction force in the lance. Keep a firm grip on the lance handle.

4) Press the trigger on the gun and begin washing.

5) To use the cleaner with hot water, turn the temperature regulator (fig. 7B) to the recommended washing values.
For some models turn the ignition switch (fig. 7A) onto the hot water position before effecting the operations described in this point.

⚠ In water cleaners with the “Total Stop” system, the motor starts and stops when the lever on the lance handle is actioned or released.

⚠ Do not block the handle lever in the delivery position.

IMPORTANT!

To eliminate any impurities or air bubbles from the water circuit we advise starting the cleaner for the first time without the lance and letting the water run out for a few seconds.
Impurities could block the nozzle and cause malfunction (Fig. 8).

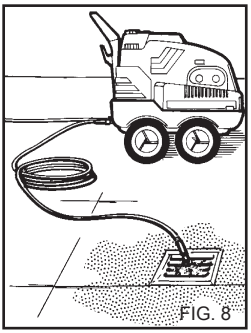


FIG. 8

STOPPING THE CLEANER

1) Switch off the burner by turning the pressure regulator to pos. "0" (fig. 7B).

2) Let the cleaner run with cold water only for at least 30 seconds to cool down the boiler.

3) After using with detergent, flush out the intake circuit; place the detergent suction hose (fig. 9) in a tank of clean water and let the pump run for 1 minute with the dosing tap turned fully on and the lance in detergent delivery condition.
4) Stop the cleaner by turning the selector switch to pos. "0" (fig. 7A).

5) Discharge the pressure from the H.P. hose by pressing the trigger on the gun

6) Disconnect the water cleaner from the mains electricity supply via the omnipolar switch or by unplugging the plug from the socket.

7) Turn off the water supply tap (fig. 5A).

⚠ If the water cleaner is left, even temporarily, turn it off by using the omnipolar switch or by unplugging the plug from the socket.

⚠ Water cleaners with the “Total Stop” device should be considered as off when the omnipolar switch is in the “O” position or the plug is unplugged from the socket.

⚠ When the water cleaner is not used, close the safety device on the handle.(fig.11)

⚠ Dry use of the water cleaner causes serious damage to pump gaskets.

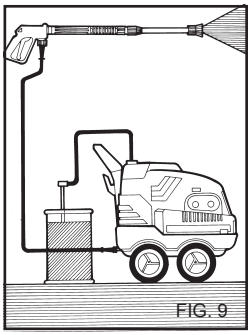


FIG. 9

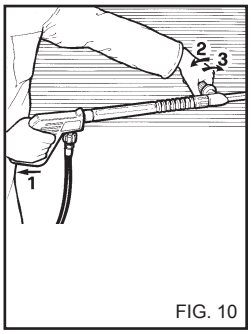


FIG. 10

USE OF THE DOUBLE LANCE (fig. 10)
The double lance allows the operator to select a low or high pressure jet. The pressure is selected with the gun in pos. 1. High pressure: pos. 2. Low pressure pos. 3.

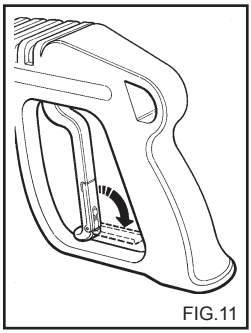


FIG.11

REGULATING PRESSURE AND USING STEAM. (If available)

This chapter concerns only those models provided with the “pressure regulating” device. The pressure regulator, fig. 12, allows the operator to adjust the working pressure. When knob C is turned in an anti-clockwise direction (B) (minimum), the working pressure is reduced.

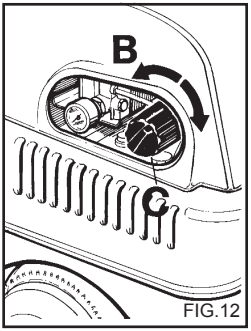


FIG.12

Use the steam nozzle (supplied as an accessory).

Turn the thermostat knob “B” (fig. 7) to steam position to obtain an increase in the temperature of the water at delivery.

At work temperatures higher than 95°C (203°F), the work pressure must be ≤ 32 bar (460 PSI).

⚠ **During use with boiling water, "Steam Phase", keep away from the openings for fumes discharge (risk of burning).**
When you have finished using the "Steam Phase", turn the thermostat knob "B" to position "0" (fig. 7) and let the machine cool down for about 3 minutes with the gun turned on.

ADVICE ON USING DETERGENTS

This cleaner has been designed for use with the detergents supplied or recommended by the manufacturer.

The use of other detergents or chemicals may influence the safety of the cleaner.

1) For environmental compatibility, we recommend a reasonable use of detergents, according to the instructions on the pack.
2) From the range of recommended products, choose the one most suited to the washing job to be done and dilute it with water according to the instructions on the pack or in the catalogue of the detergents most suited for the type of hot or cold water cleaner.
3) Ask your dealer for the detergents catalogue.

OPERATING PHASES FOR CORRECT CLEANING WITH DETERGENTS

1) Prepare the solution of detergent at the concentration most suitable for the type of dirt and the surface that is to be washed.

2) Start the cleaner, turn on the detergent tap (if present), switch on the detergent suction control on the lance and spray the dirty surface with the diluted product, working from bottom to top. Let it react for a few minutes.

3) Rinse the whole surface well from top to bottom with hot or cold water at high pressure.

4) After using with detergent, flush out the intake circuit; place the detergent suction hose (fig. 9) in a tank of clean water and let the pump run for 1 minute with the dosing tap turned fully on

MAINTENANCE

ONLY THE OPERATIONS AUTHORIZED IN THIS INSTRUCTIONS MANUAL MAY BE CARRIED OUT BY THE USER.

ALL OTHER OPERATIONS ARE FORBIDDEN.

⚠ For maintenance of the boiler, high pressure pump, the electrical parts and all parts with a safety function, you must apply to our Technical service centre.

⚠ Disconnect the water cleaner from the mains electricity supply via the omnipolar switch or by unplugging the plug from the socket and close the water supply tap (see chapters on connecting to the electricity and water mains) before carrying out any maintenance jobs. Once maintenance has been completed, ensure that the closing panels have been correctly reassembled and anchored with the screws provided before reconnecting the cleaner to the mains.

Failure to do so may cause a risk of electric shock.

PRECAUTIONS AGAINST FROST

The cleaner must not be exposed to frost.

If the cleaner is left in premises where it is exposed to frost, when work is over or for storage, antifreeze must be used to prevent serious damage to the hydraulic circuit.

OPERATIONS FOR USING ANTIFREEZE (fig. 13)

1) Turn off the water supply (tap), disconnect the hose and run the cleaner until it is completely empty.
2) Stop the water cleaner with the ON/OFF switch in the "O" position.
3) Prepare a container with the solution of antifreeze.
4) Immerse the tube in the container with the anti-freeze solution.
5) Start the water cleaner with the ON/OFF switch in the "I" position.
6) Start the cleaner and let it run until antifreeze comes out through the lance.
7) Suck up antifreeze with the detergent intake system too.
8) Disconnect the water cleaner from the mains electricity supply via the omnipolar switch or by unplugging the plug from the socket.
9) For high pressure cleaners provided with water tank, the detergent solution prepared as described in the point 3, must be poured directly into the tank.

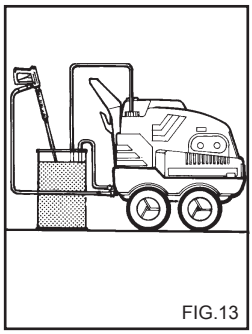


FIG.13

⚠ Anti-freeze may cause environmental pollution. Always follow the instructions given on the pack. (Dispose of carefully.)

⚠ For water cleaners without oil drain bung, contact our technical service centre for replacement.

CHECKING PUMP OIL LEVEL AND OIL CHANGE

From time to time check the oil level in the high pressure pump by means of the sight glass (fig. 14A) or the dipstick (fig. 14B).
If the oil has a milky appearance, call the technical service centre immediately.
Change the oil after the first 50 hours' work and subsequently every 500 hours or once a year.
Proceed as follows:
1) Unscrew the drain cap situated under the pump (fig. 15C).
2) Unscrew the cap with the dipstick (fig. 14B).
3) Let all the oil drain off into a container and deliver it to an authorized oil collection and disposal centre.
4) Replace the drain screw and pour fresh oil in through the filling cap on top (fig. 15A) until it reaches the level indicated on the sight glass (fig. 15B).
Use only SAE 15 W40 oil.

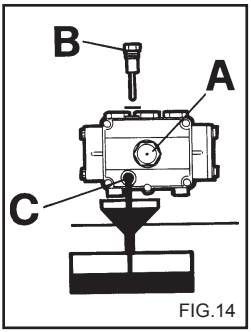


FIG.14

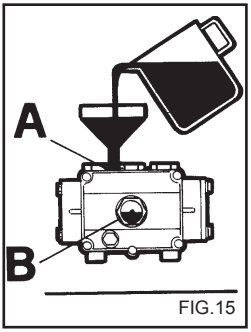


FIG.15

CLEANING THE FUEL FILTER AND TANK

Remove and replace the in-line fuel filter (fig. 16).
Change it from time to time.

Empty the fuel tank.

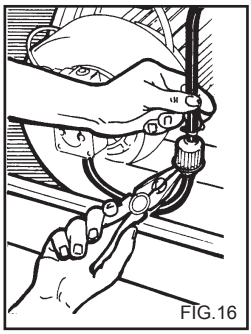


FIG.16

Open the drain cap (fig. 17) (if available) and let any impurities drain out into a container. Flush out the tank with clean fuel and close the drain cap.

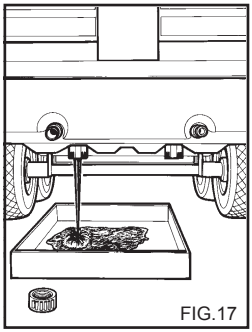


FIG.17

CLEANING THE WATER FILTER

Clean the water intake filter regularly and free it from any impurities (fig. 18).

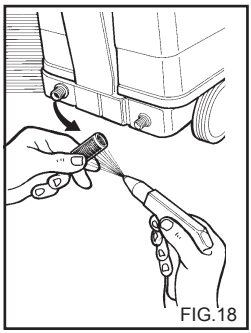


FIG.18

⚠ **CHANGING THE NOZZLE**

The high pressure nozzle fitted on the lance must be changed from time to time, as this component is subject to normal wear during use. Wear may generally be detected by a drop in the working pressure of the cleaner. To replace it, consult your supplier and/or dealer for instructions.

DESCALING

Descaling must be carried out from time to time because the scale present in the water partially deposits inside the hydraulic circuit and the coil which with time becomes clogged.

Apply to our technical service centre to have the machine descaled from time to time; this will save you money and increase the efficiency of the cleaner.

TABLE OF ROUTINE MAINTENANCE TO BE PERFORMED BY THE USER

Description of operations:	
Check power cable - pipes - high pressure connectors	Each use
Ist oil change in H.P. pump	After 50 hours
Subsequent changes in H.P. pump	Every 500 hours
Change and clean fuel filters	Every 100 hours
Clean fuel tank	Every 100 hours
Clean water filter	Every 50 hours

TABLE OF EXTRAORDINARY MAINTENANCE TO BE PERFORMED BY THE TECHNICAL SERVICE CENTRE

Description of operations:	
Boiler:	
Clean Coil	Every 200 hours
Descale coil	Every 300 hours
Clean fuel pump	Every 200 hours
Change fuel nozzle	Every 200 hours
Regulade electrodes	Every 200 hours
Change electrodes	Every 500 hours
Change seals on H.P. pump	Every 500 hours
Change lanze nozzle	Every 200 hours
Calibrate and check the safety devices	Once a year

IMPORTANT:
These intervals refer to normal working conditions. For heavy duty use decrease the interval for each job.
For maintenance and/or repairs, use only original spare parts which offer the greatest characteristics of quality and reliability. Failure to use original spare parts absolves the manufacturer from all liability and transfers it to the person carrying out the operation.

PERIODS OF INACTIVITY

If the machine is to remain inactive for a long period, disconnect the supply sources, drain the tank(s) of all the operating fluids and protect any parts that could be damaged by the accumulation of dust.
Grease the parts that could be damaged by drying out, such as the supply hoses. When bringing back into use, ensure that there are no cracks or cuts in the water supply hoses.
Oil and chemical products must be disposed of according to current legislation.

SCRAPPING

If you decide that the cleaner is no longer to be used, render it inoperative by removing the electric power cable. Ensure that all parts of the cleaner that could be a source of danger are made harmless, especially for children who might use the old cleaner for play. As the cleaner is considered special waste, dismantle it and divide the material according to type, then dispose of them as required by the legislation in force.
Do not use parts dismantled for scrap as spare parts.

TROUBLE-SHOOTING

⚠ **Before carrying out any operations, disconnect the water cleaner from the mains electricity supply via the omni-polar switch or by unplugging the plug from the socket.**

FAULTS	CAUSES	REMEDIES
When the switch is turned the cleaner does not start.	Faulty electric connection. Thermal protection has tripped.	Check the mains voltage. Reset (if it trips again, apply to the technical service centre).
No jet or leakage from high pressure water circuit. After 30 seconds, the water cleaner stops. (DS Vers.).	Faulty water circuit connection. Clogged water filter. Mains tap turned off. Detergent tap turned on.	Check it. Clean it. Turn it on. Turn it off.
The pump turns but does not reach the rated pressure.	Water intake filter blocked. Faulty water circuit connection. Pressure regulation valve is set at minimum. Lance nozzle is worn. Dirty or worn valves. Detergent intake device on the lance is turned on.	Clean it. Check it. Regulate it. Apply to our technical service centre. Apply to our technical service centre. Turn it off.
When the lance is turned on the pressure falls and rises.	The nozzle is clogged or deformed. Insufficient supply.	Clean or consult our technical service centre Check it.
In by-pass or total stop phase, the water cleaner shuts down. (DS Vers.).	Micro-leaks of water from the high pressure circuit.	Contact Service Centre.
When the thermostat reaches the chosen temperature the boiler does not light.	No fuel. Fuel filters are clogged.	Check the fuel level in the tank and see that the fuel intake circuit is clean (no water). Change the in-line filter.
Water not hot enough.	Thermostat setting. Clogged filters. Boiler coil clogged with scale.	Check it. Clean the fuel filters. Apply to our technical service centre.
Too much smoke from the flue.	No fuel. Incorrect combustion. Impurities or water in the fuel.	Fill the fuel tank. Clean the various fuel filters. Empty the tank and clean it carefully. Clean the various fuel filters too.
Insufficient detergent suction.	Tap turned off. No detergent in the tank. Control on the lance not switched on. Coil or pipe clogged.	Turn it on. Fill the detergent tank. Set the control on the lance. Apply to our technical service centre.
Water leaks from head.	Gasket worn.	Apply to our technical service centre.
Presence of water in oil.	Oil seal rings worn.	Apply to our technical service centre.

IMPORTANT:
For maintenance and/or repairs, use only original spare parts which offer the best quality and reliability.
Failure to use original spare parts frees the manufacturer from all responsibility.

Technical Data

	• **Model**		**UNIVERSE DS 1600 M**	**UNIVERSE DS 2210 T**	**UNIVERSE DS 2010 M**	**UNIVERSE DS 2320 T**	**UNIVERSE DS 2640 T**
	• Power supply	~	1	3	1	3	3
		v	230 / 240	400 / 415	230 / 240	400 / 415	400 / 415
		Hz	50	50	50	50	50
	• Absorbed power	kW	2,7	3,6	3,2	4,0	5,3
		W	2700	3600	3200	4000	5300
	• Pressure	bar	110	160	140	160	180
		psi	1600	2200	2000	2200	2600
	• Flow rate	l/h	600	600	540	660	780
		gph	158,5	158,5	142,5	174	206
	• Fuel consumption	kg/h	3,3	3,3	3,3	3,3	3,3
		gph	0,9	0,9	0,9	0,9	0,9
	• Thermal capacity	kW	39,2	35,86	39,2	39,2	39,2
	• Water out-put temperature	°C	120	120	120	110	120
		°F	248	248	248	230	248
	• Fuel tank	l	10	10	10	10	10
		gal	2,6	2,6	2,6	2,6	2,6
	• Detergent tank	l	10	10	10	10	10
		gal	2,6	2,6	2,6	2,6	2,6
	• Discaling tank	l					
		gal					
	• High pressure hose	m	10	10	10	10	10
		ft	32,80	32,80	32,80	32,80	32,80
	• Power cable	m	5,5	5,5	5,5	5,5	5,5
		ft	18	18	18	18	18
	• Lance thrust	N	17,4	23	21	26,5	29,8
	• Noise	Lp dB (A)	77	80	77	80	80
		Lw dB (A)	91	94	91	94	94
	• Weight	kg	95	95	95	95	95
		lb	209,5	209,5	209,5	209,5	209,5
	• Dimensions	cm	97x66x88	97x66x88	97x66x88	97x66x88	97x66x88
		in	38,2x26x34,6	38,2x26x34,6	38,2x26x34,6	38,2x26x34,6	38,2x26x34,6

KERRICK SERVICING

Kerrick's workshop facilities are staffed by experienced technicians providing servicing, repair and manufacturing for a range of products including; water blasters, vacuum cleaners, extractros, pressure cleaners, pumps and more.

We work on everything from commercial and light industrial to heavy duty equipment and offer customised design build services. We also warehouse and ship a comprehensive range of spare parts for your convenience.

For more information on your products, to book in a service or repairs, or to order spare parts, give Kerrick a call or send through an enquiry on our website. Contact details can be seen below:

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